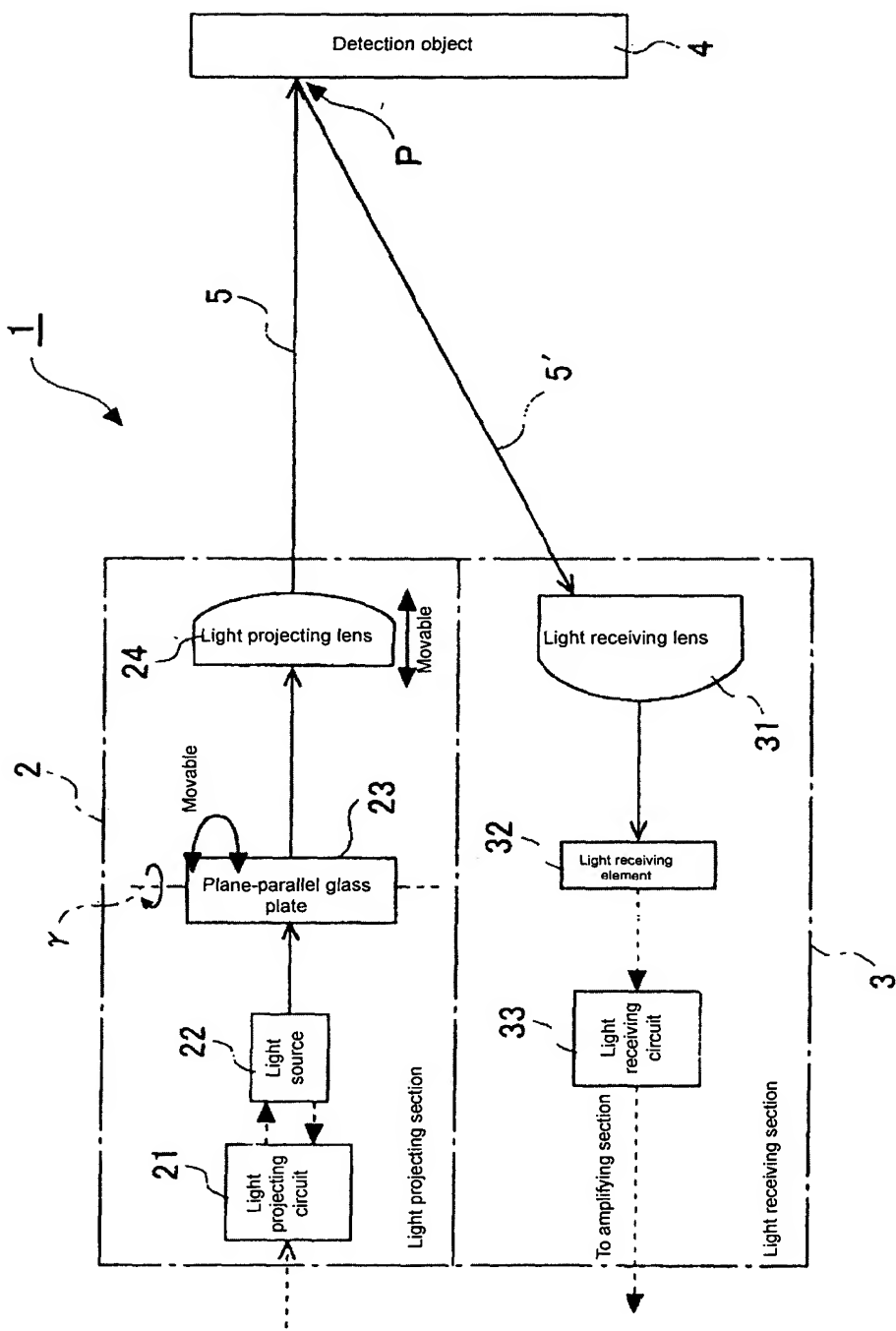
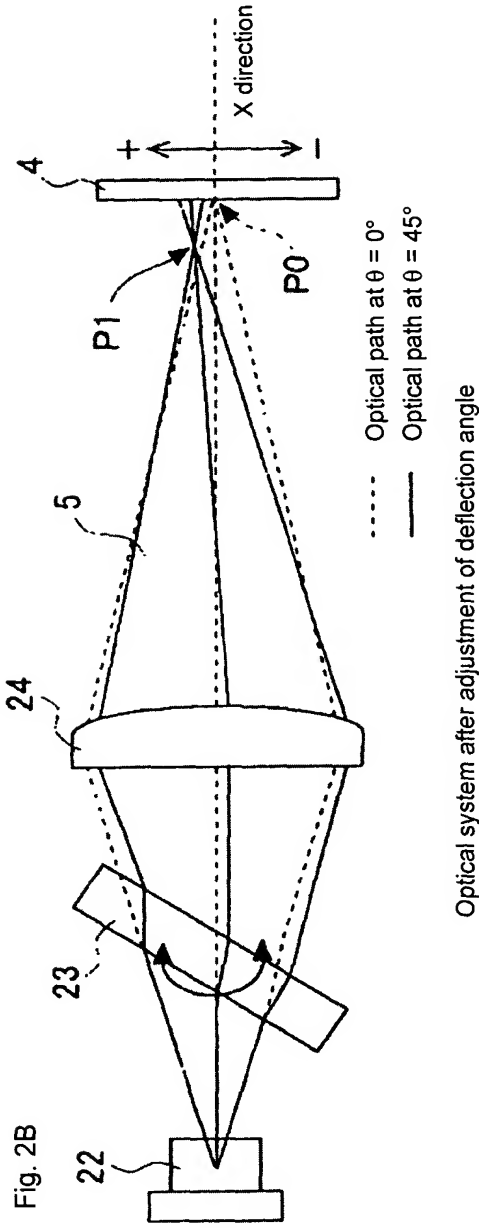
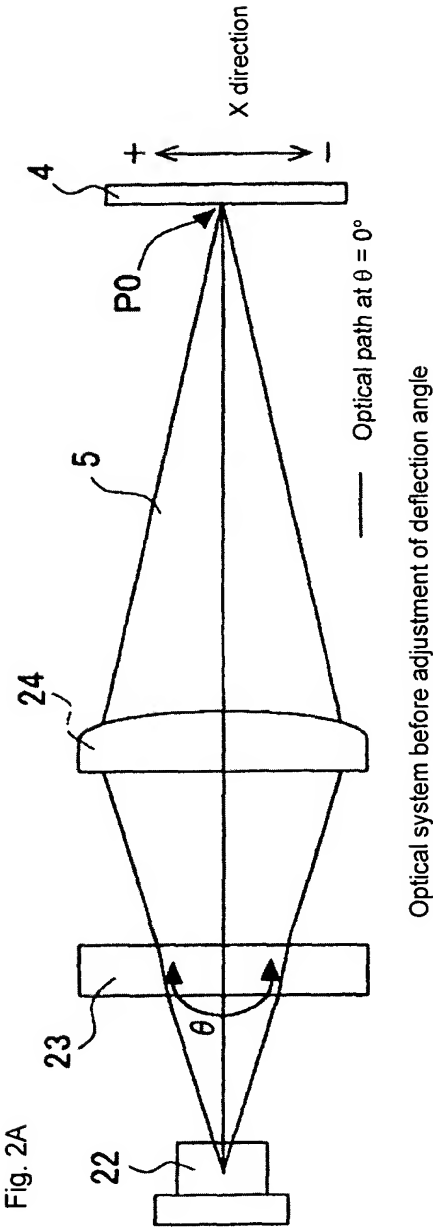


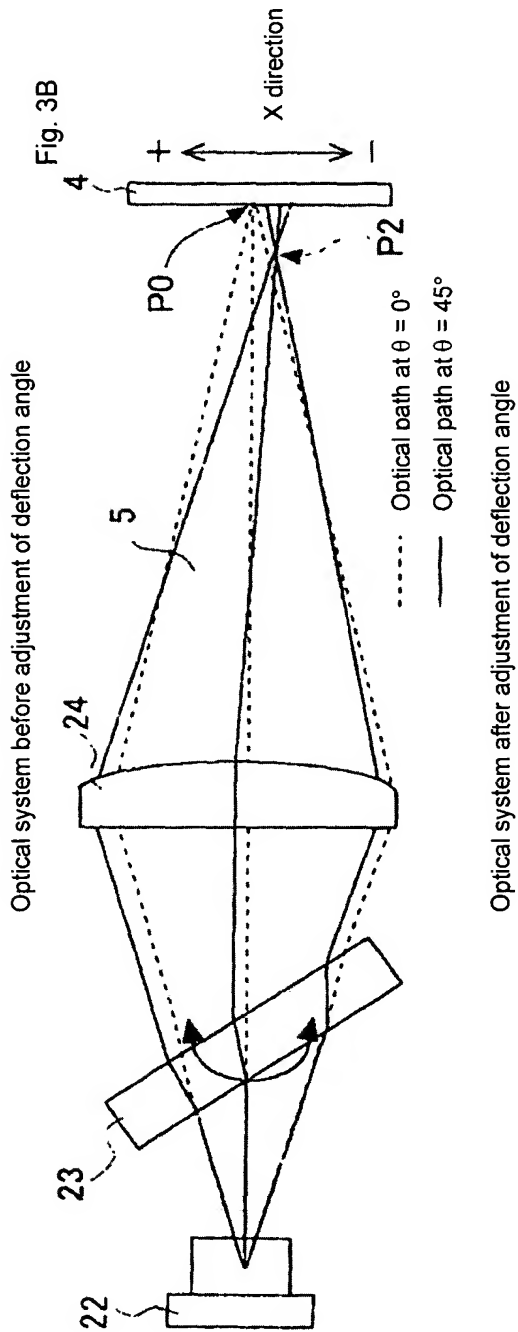
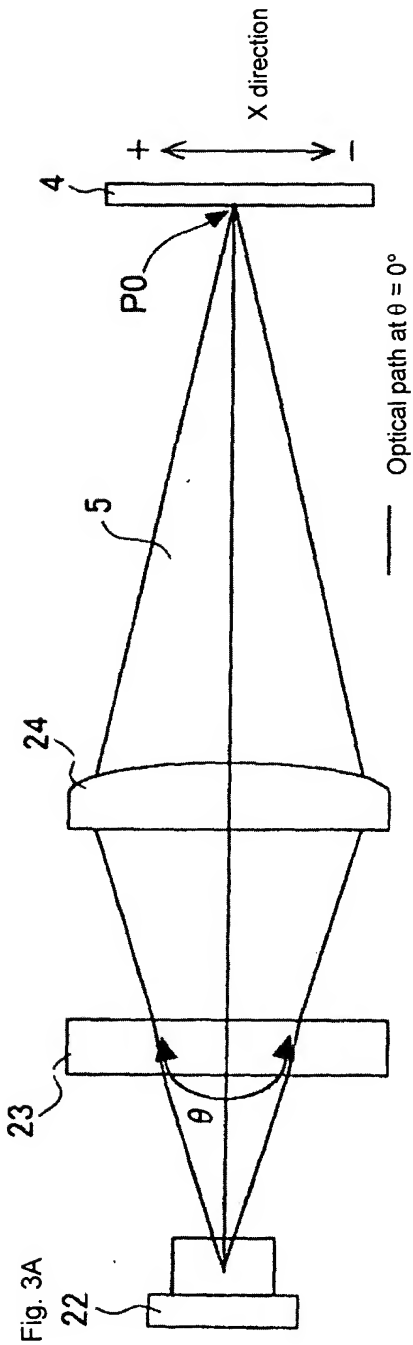
Fig. 1



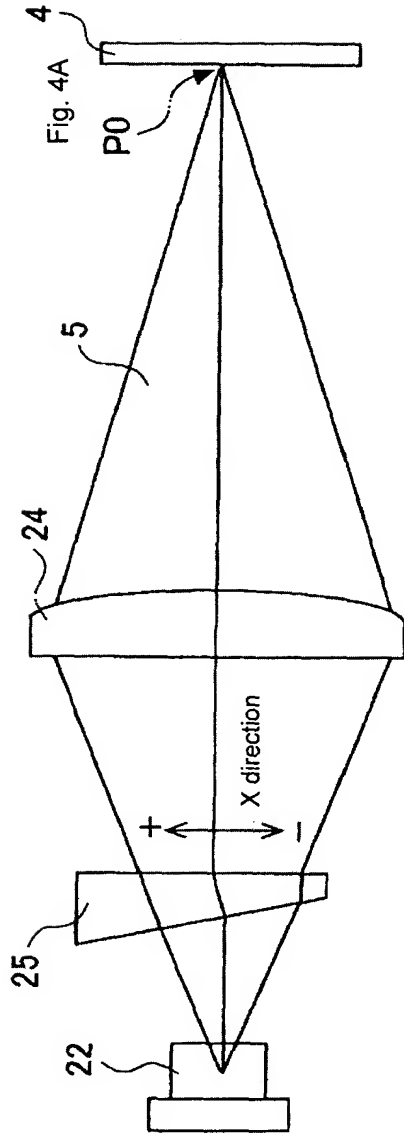
Schematic diagram showing electrical and optical configuration of sensor head section



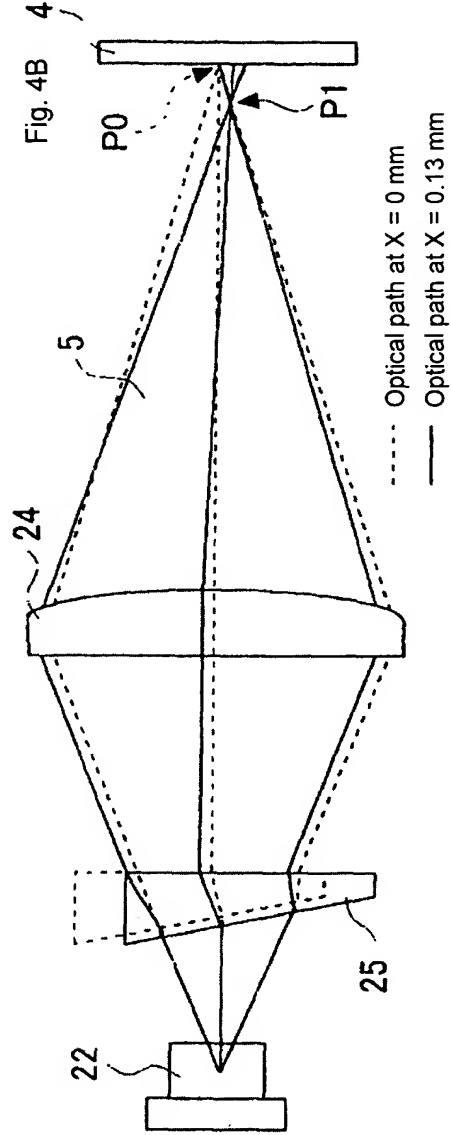
First pair of descriptive views for workings of optical system capable of adjusting deflection angle (1)



First pair of descriptive views for workings of optical system capable of adjusting deflection angle (2)



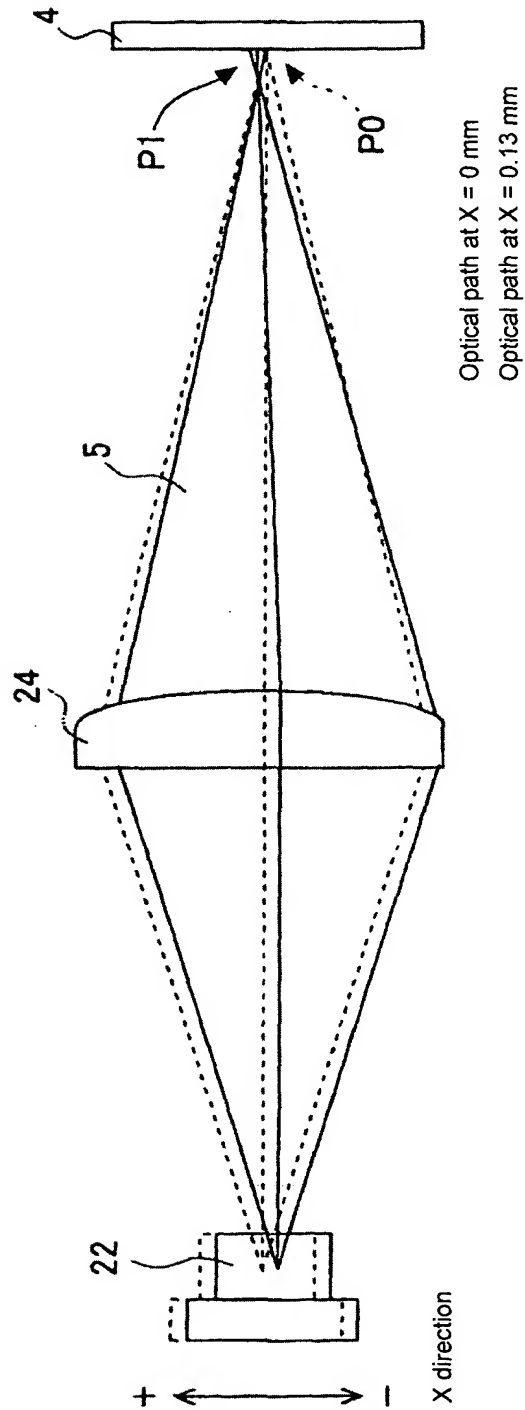
Optical system before adjustment of deflection angle



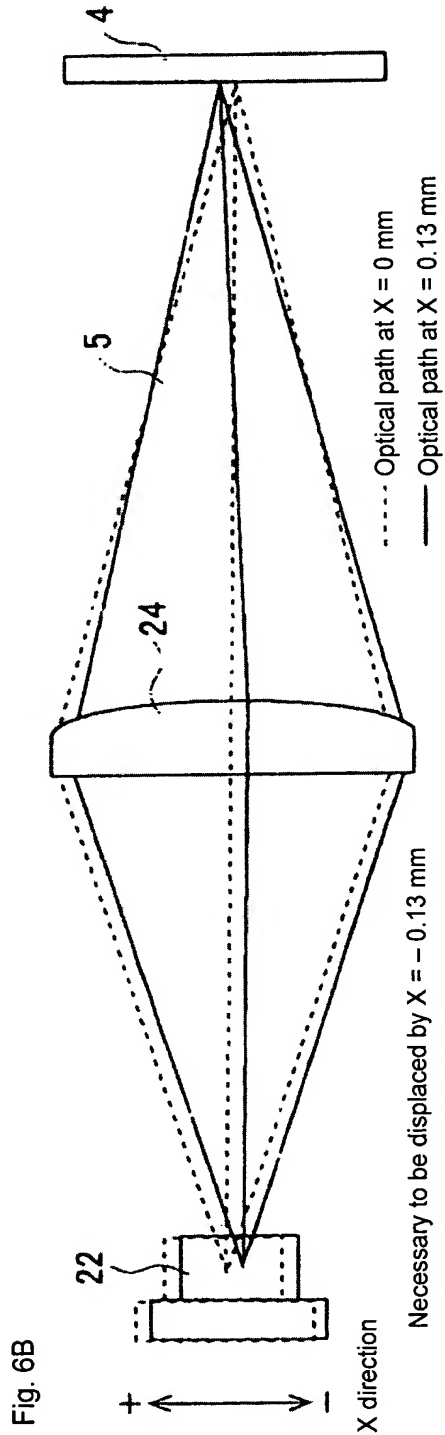
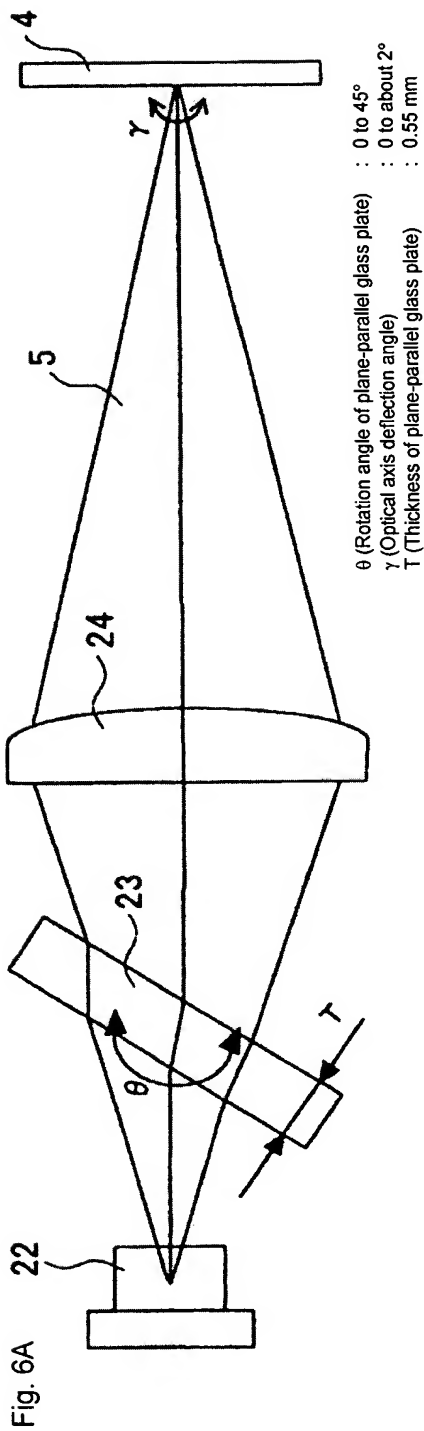
Optical system after adjustment of deflection angle

First pair of descriptive views for workings of optical system capable of adjusting deflection angle (3)

Fig. 5

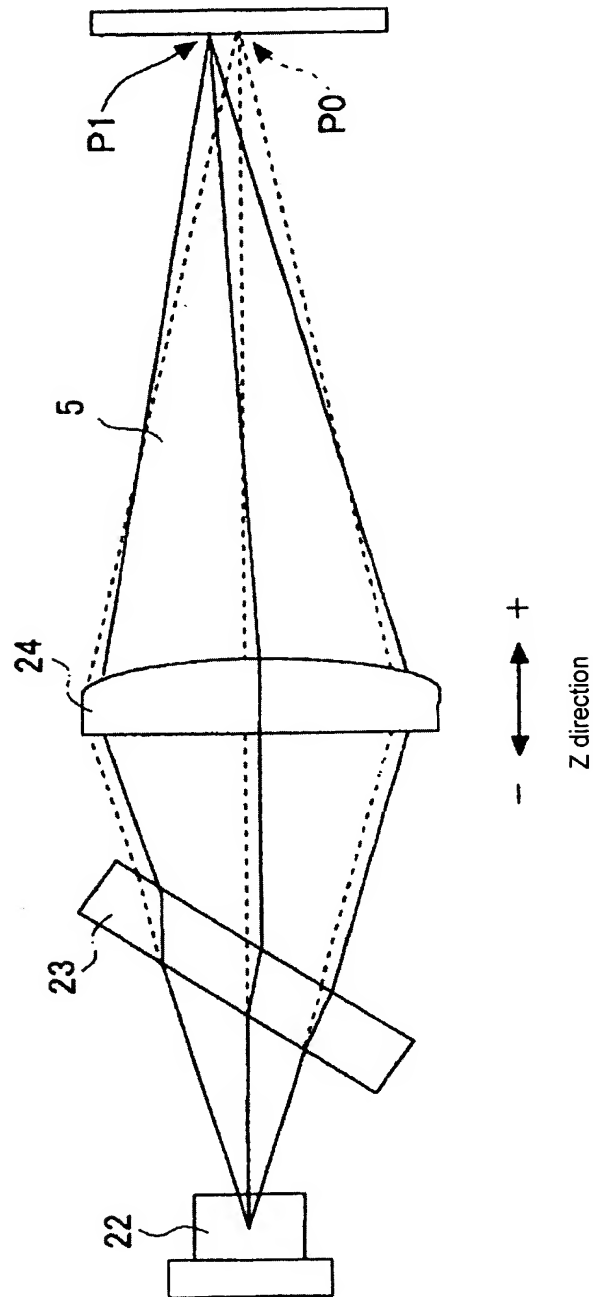


First pair of descriptive views for workings of optical system capable of adjusting deflection angle (4)

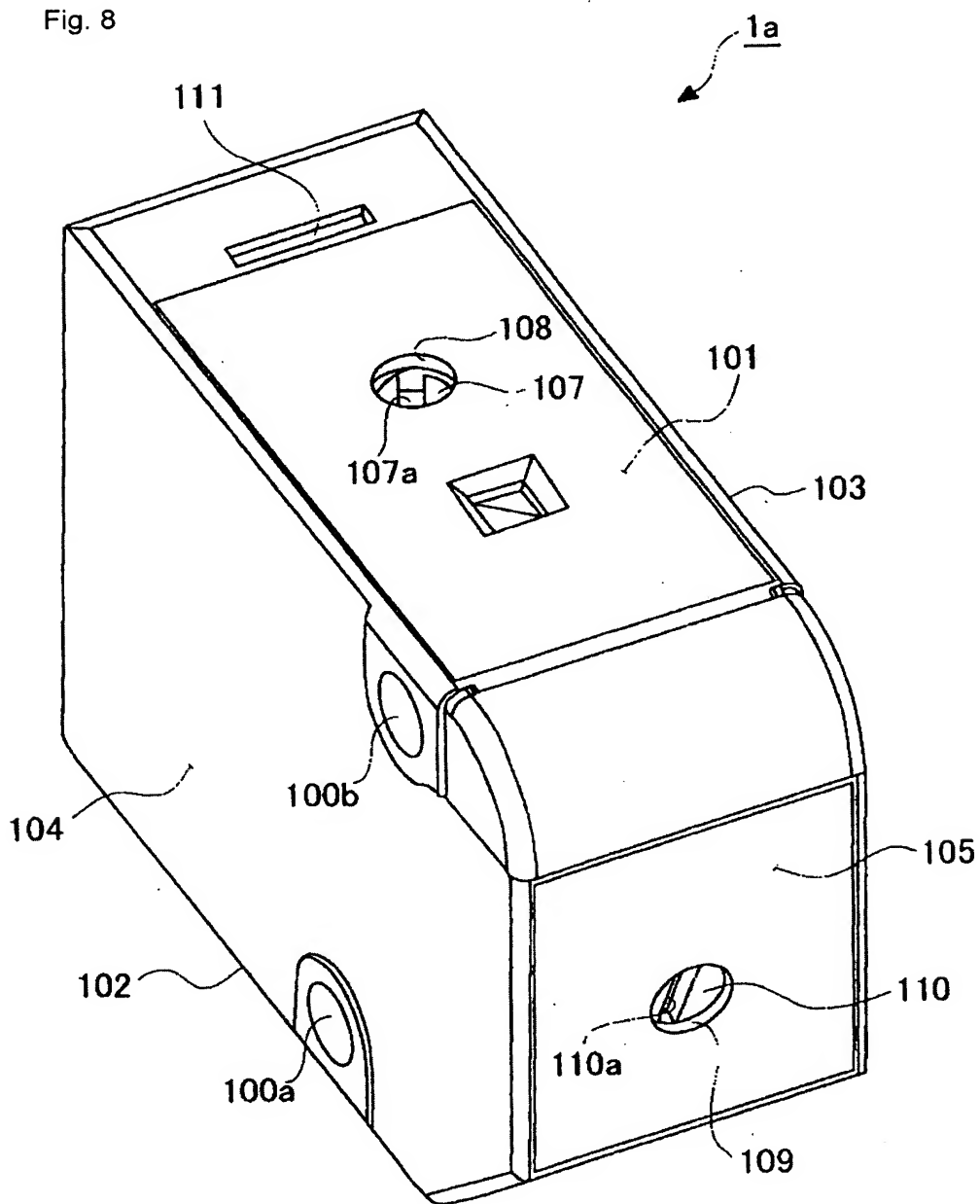


Descriptive views showing as comparison fine adjustment effect of plane-parallel glass plate rotation mechanism and case where fine adjustment effect equal to that of the mechanism is obtained by displacing position of light source

Fig. 7

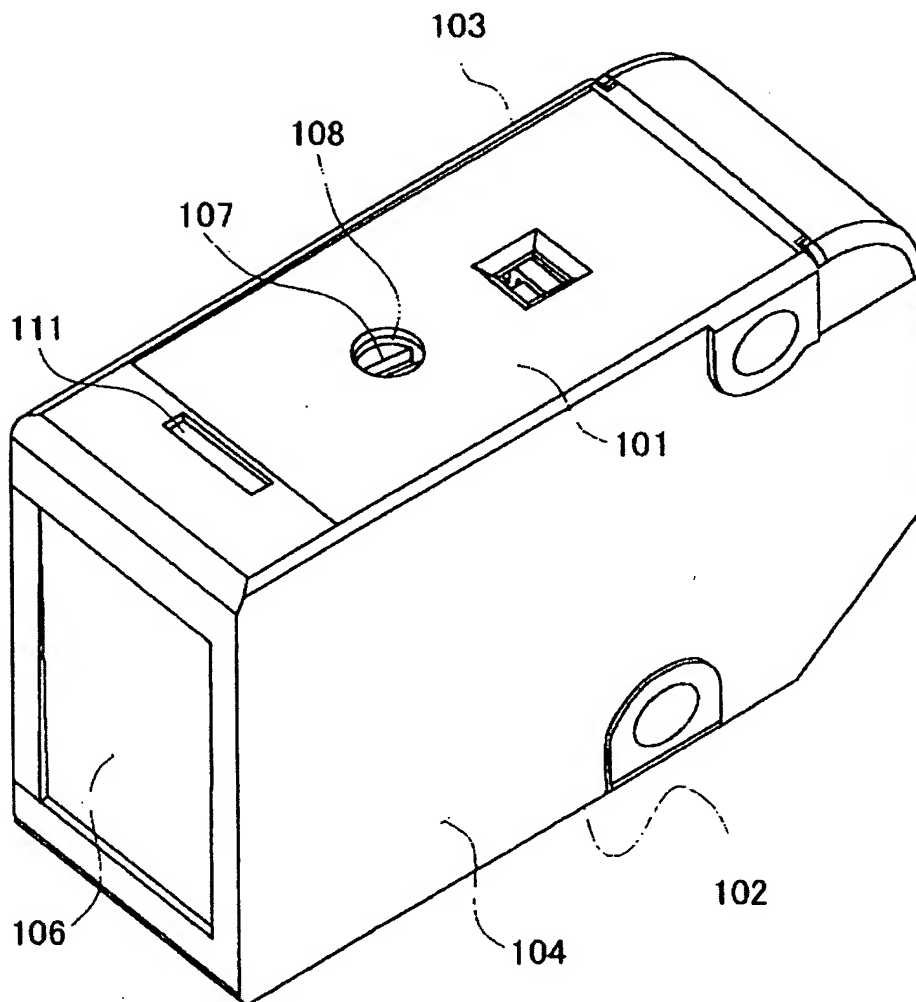


Descriptive view for workings of optical system capable of adjusting deflection angle and light beam



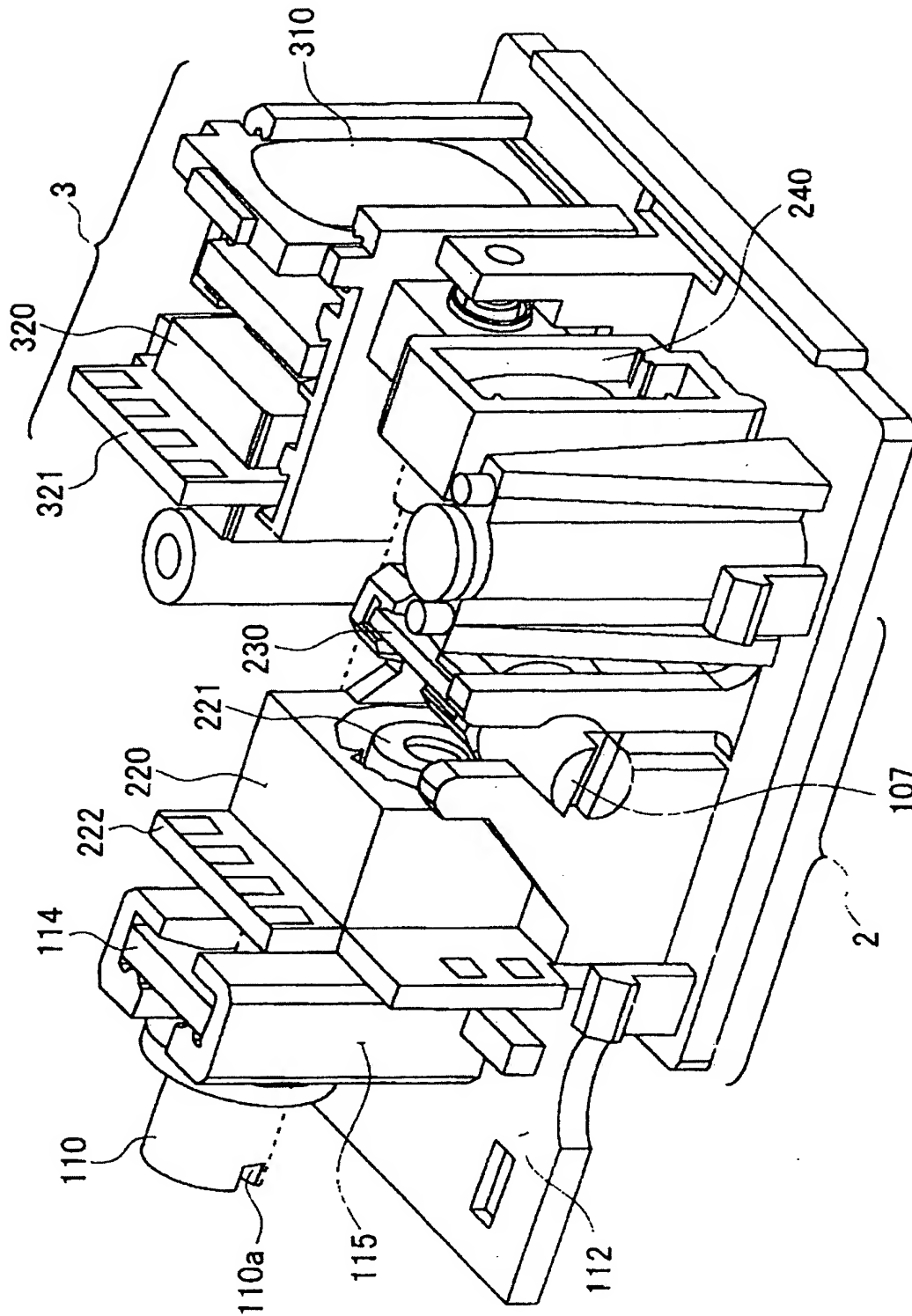
Right, rear perspective view of sensor head

Fig. 9



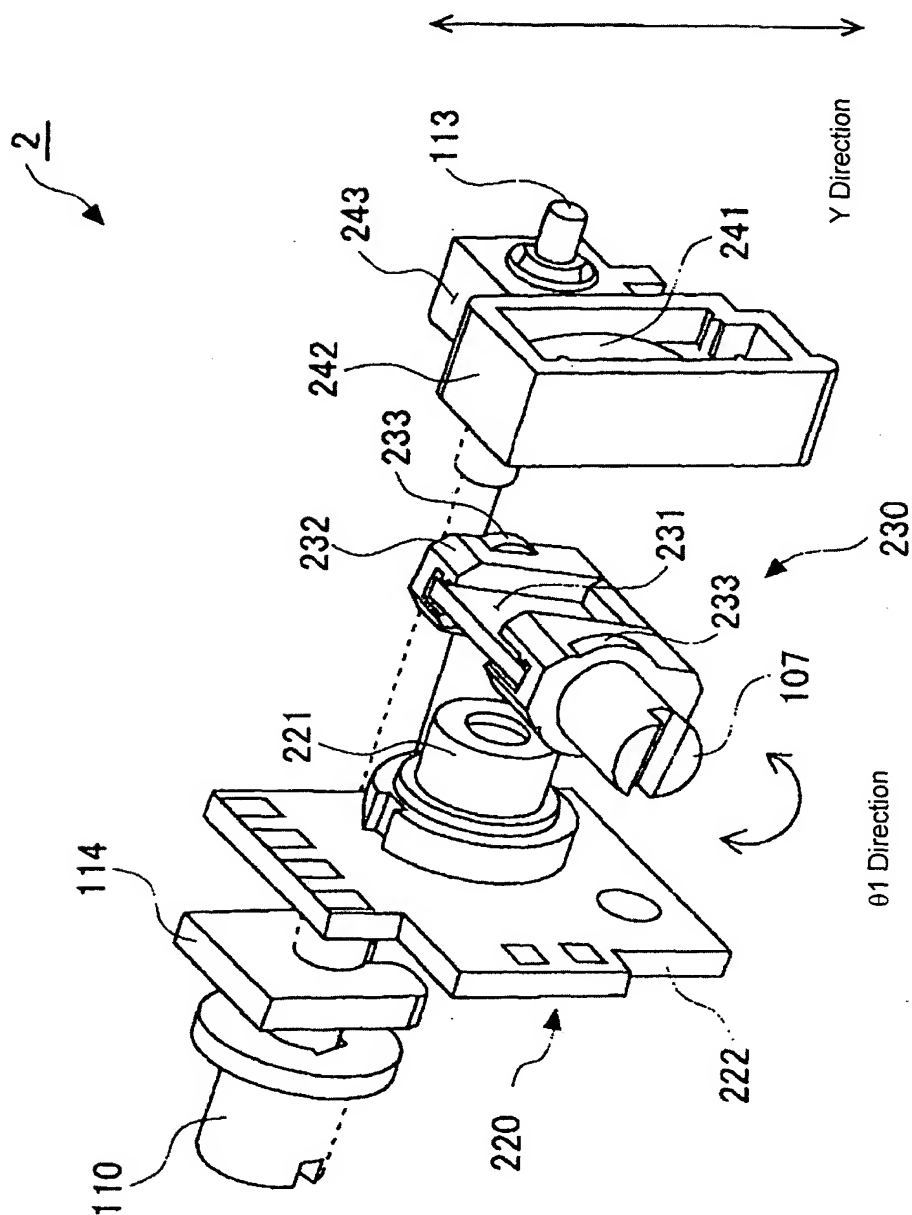
Left, front perspective view of a sensor head

Fig. 10



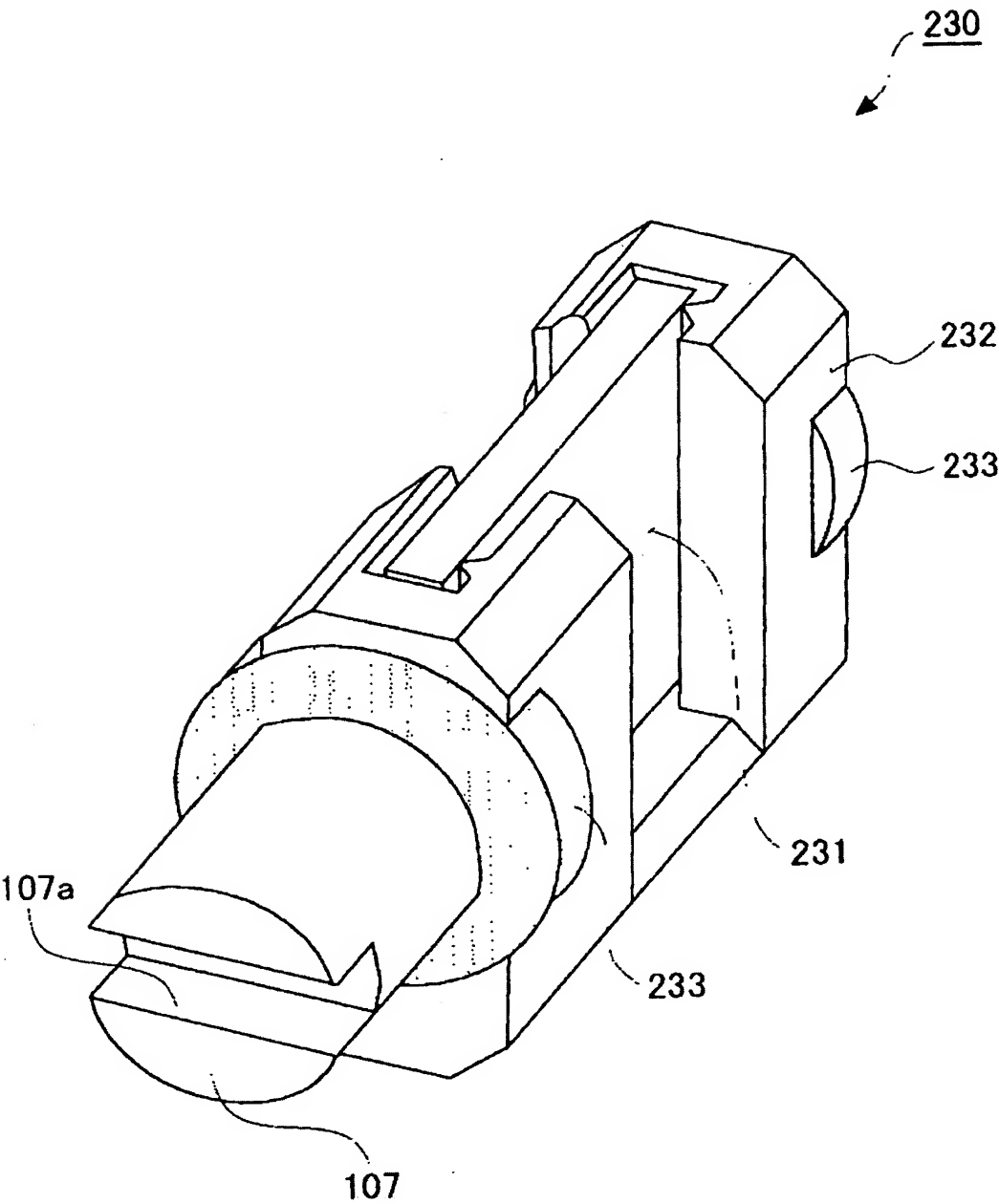
Right, top perspective view of optical base on which various optical part blocks are mounted

Fig. 11



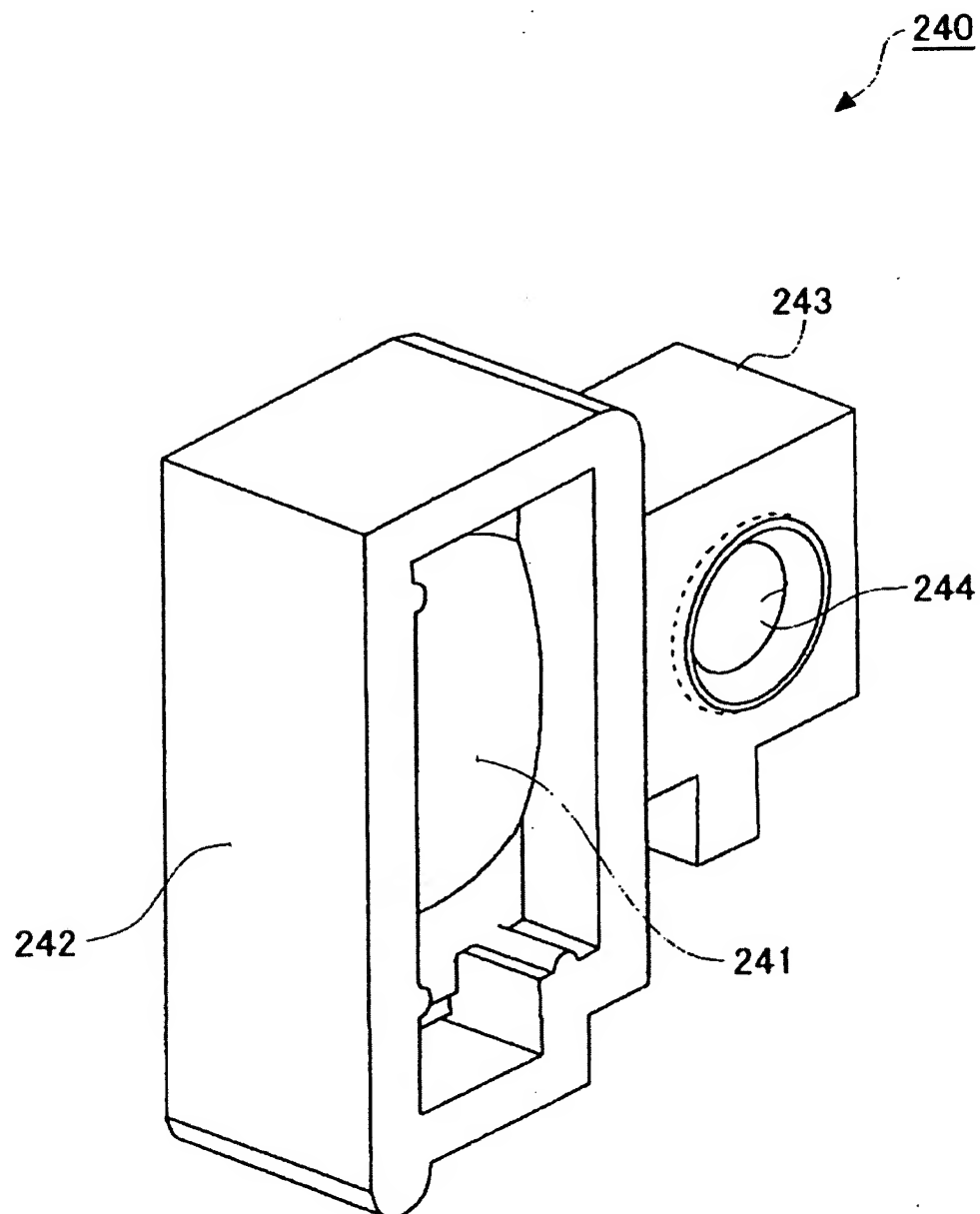
Exploded perspective view showing optical part blocks constructing light projecting section, which is picked from Fig. 10

Fig. 12



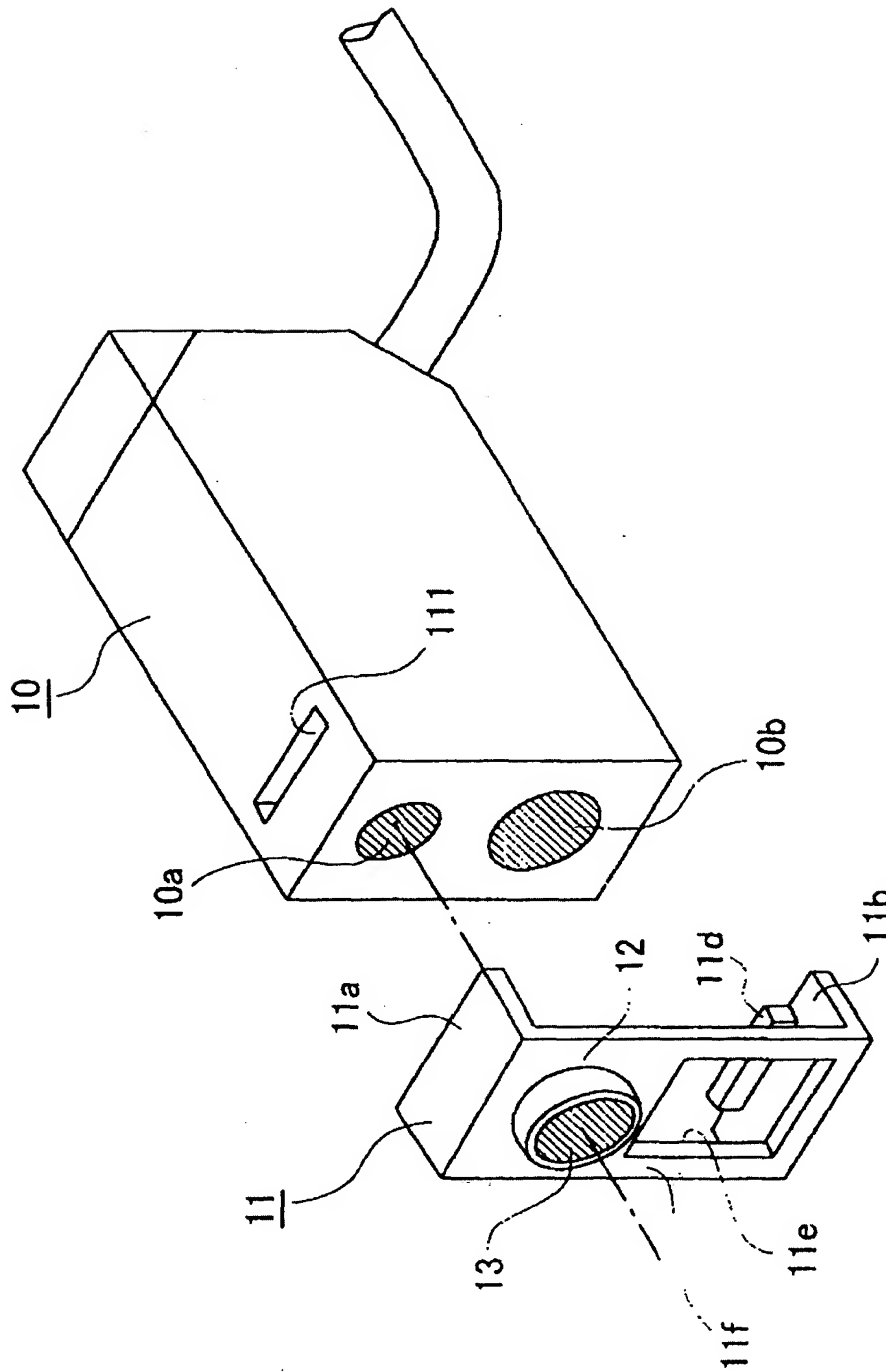
Perspective view of optical axis adjustment block

Fig. 13



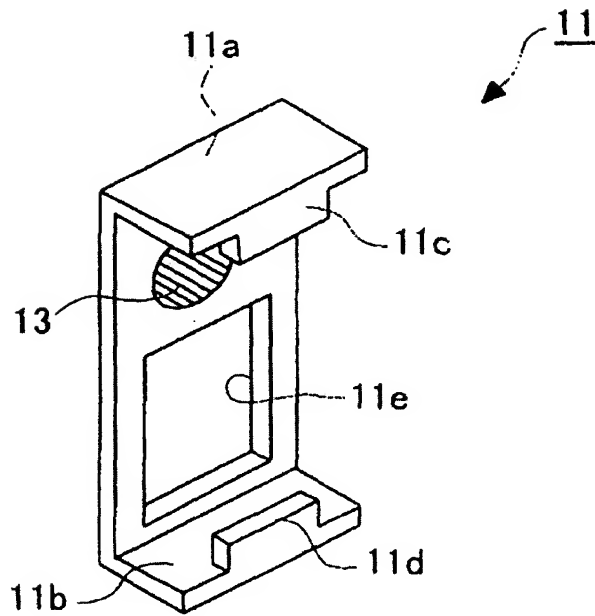
Perspective view of light projecting lens block

Fig. 14



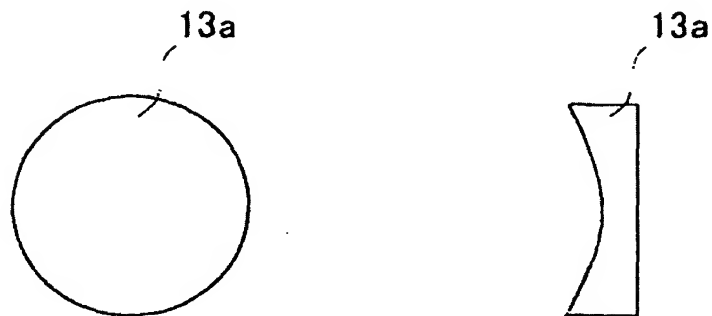
Exploded perspective view of sensor head capable of adjusting
spot diameter

Fig. 15A



Rear perspective view of option unit capable of adjusting spot diameter

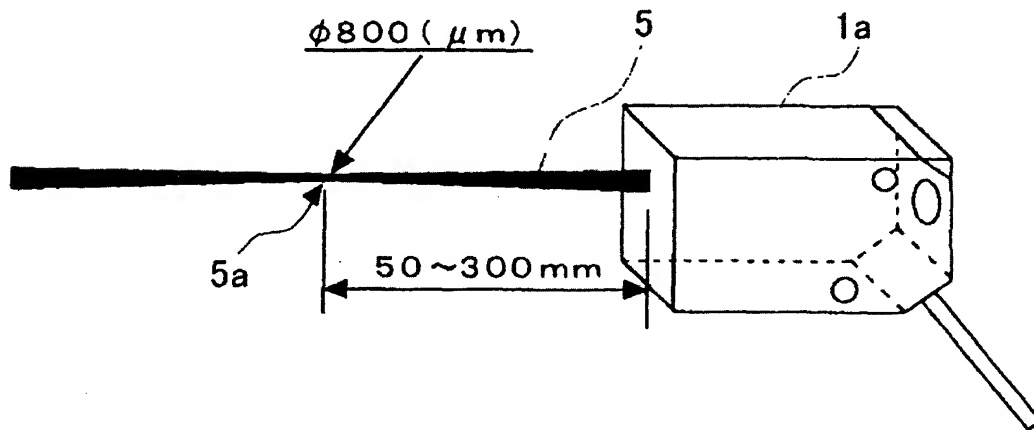
Fig. 15B



Shape of lens contained in option unit capable of adjusting spot diameter, front view, side view

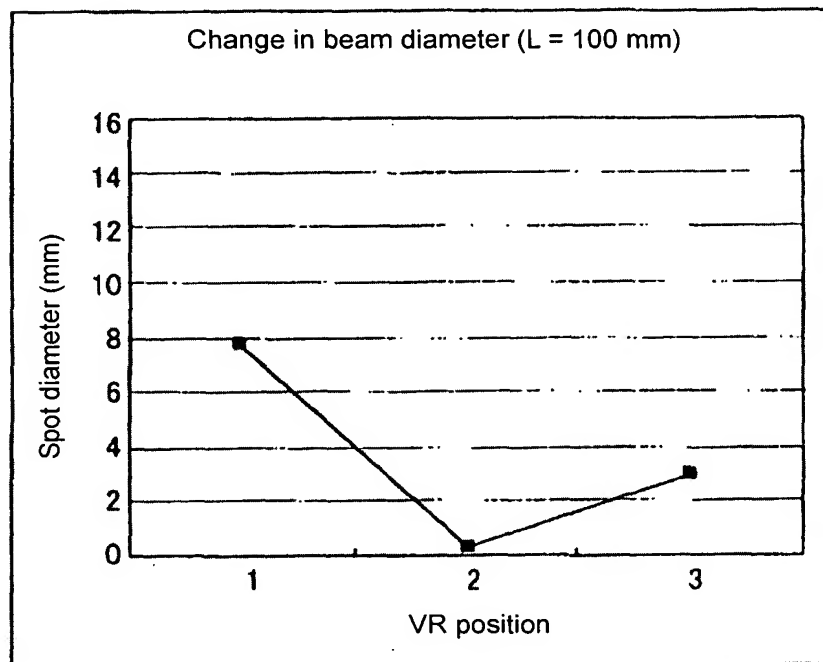
Descriptive views of option unit capable of adjusting spot diameter

Fig. 16A



View showing workings of sensor head unit

Fig. 16B



Graph of characteristic of spot diameter adjustment by sensor head unit

Descriptive view for workings in sensor head unit and graph of characteristic of spot diameter adjustment therewith

Fig. 17A

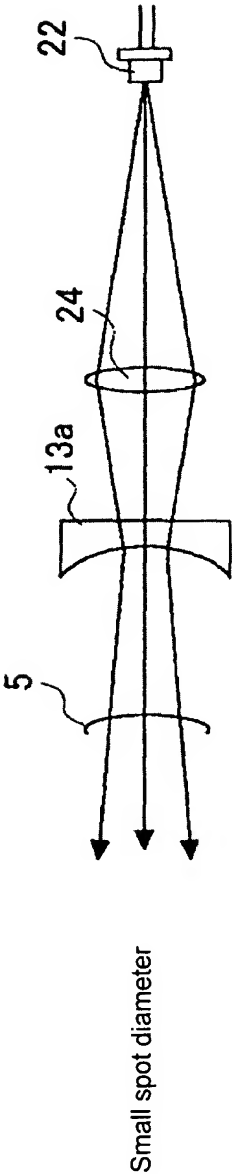


Fig. 17B

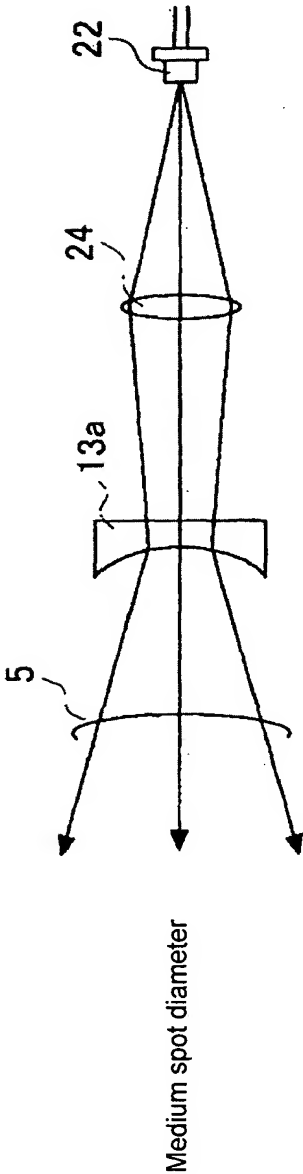
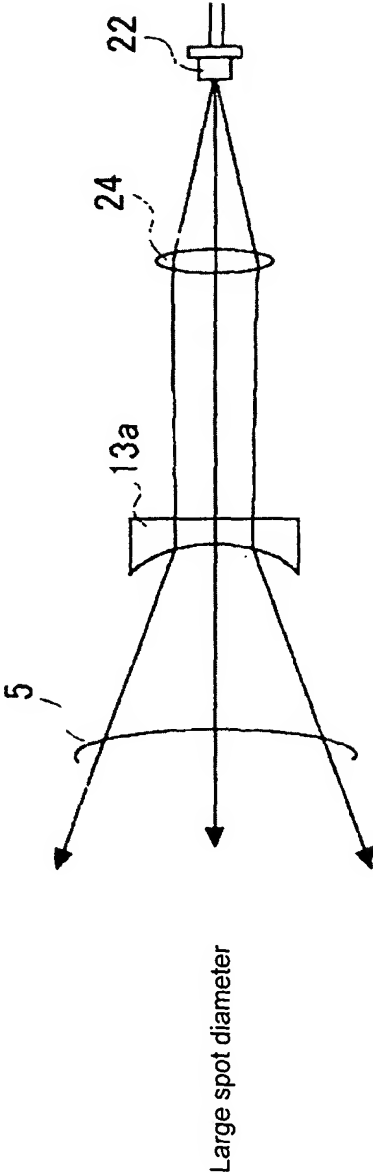
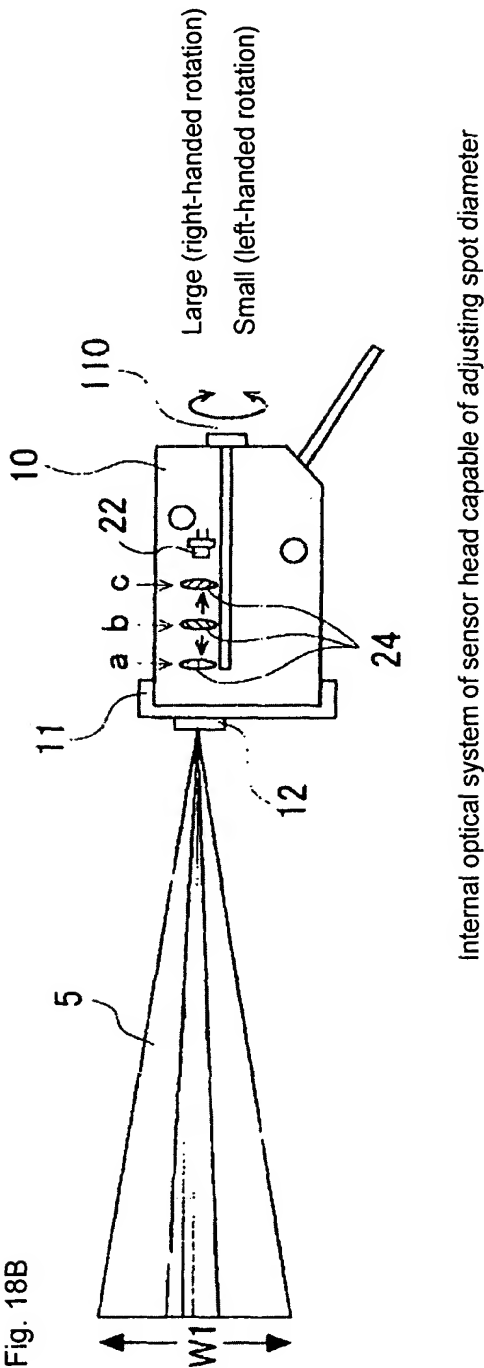
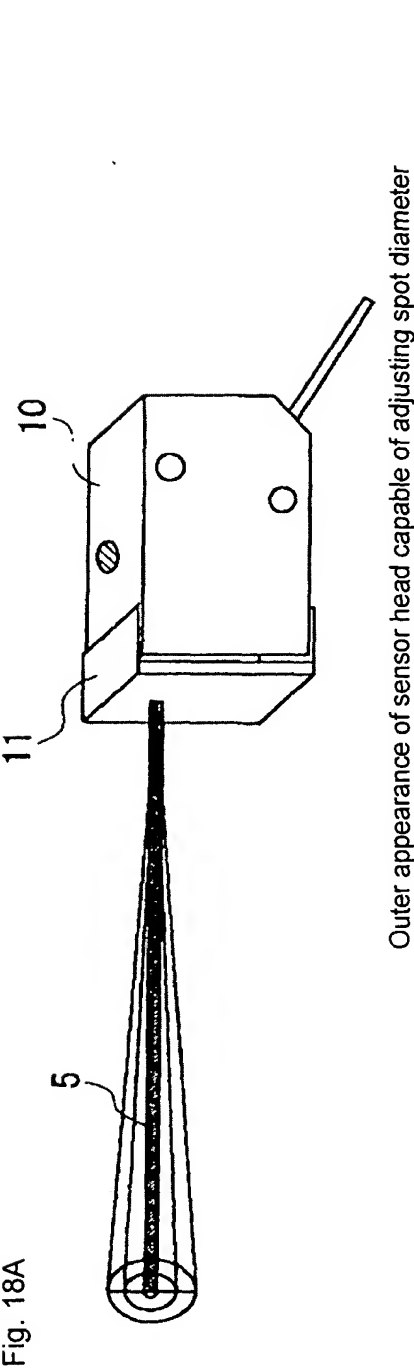


Fig. 17C

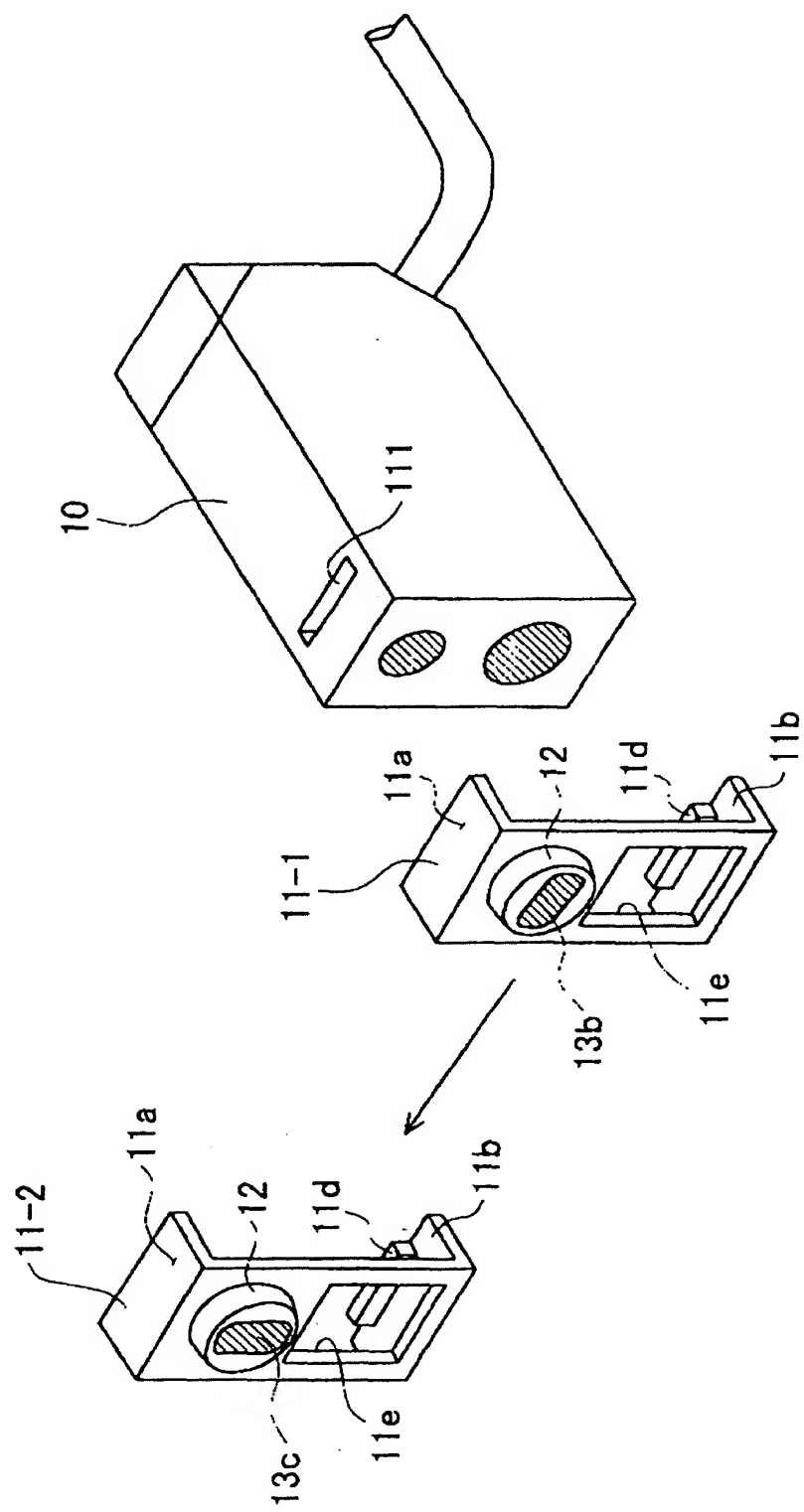


Descriptive views for workings in spot diameter adjustment



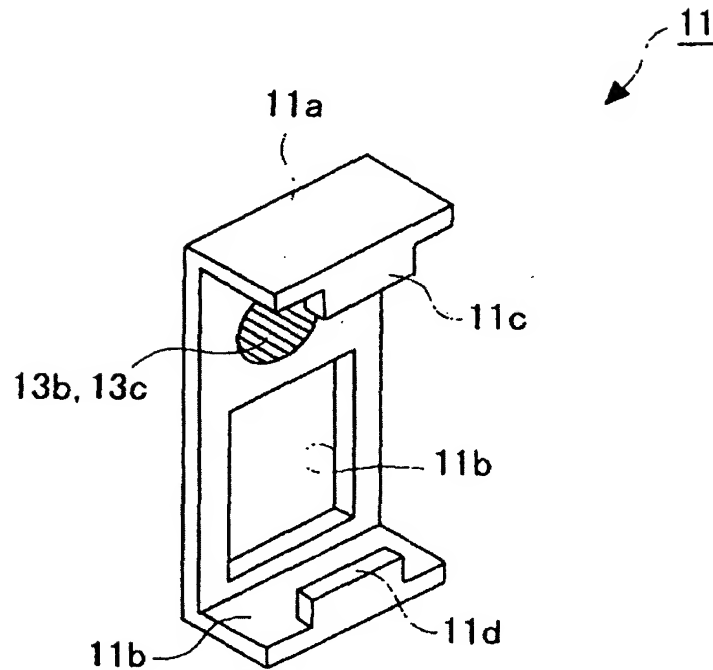
Descriptive views of sensor head capable of adjusting spot diameter

Fig. 19



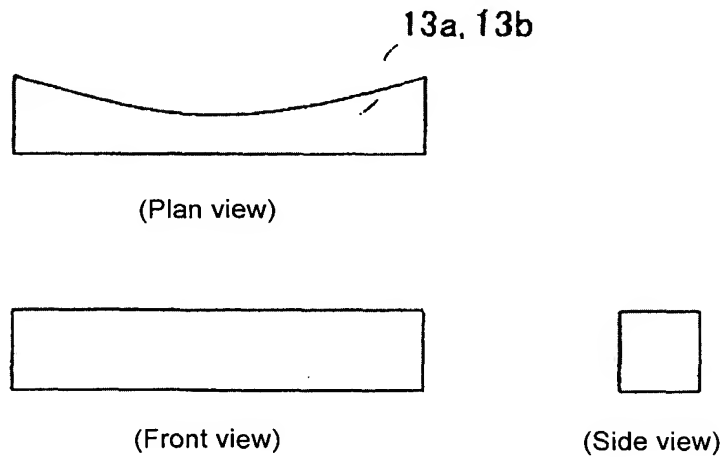
Exploded perspective view of sensor head capable of adjusting width of slit light

Fig. 20A



Rear perspective view of option unit capable of adjusting width of slit light

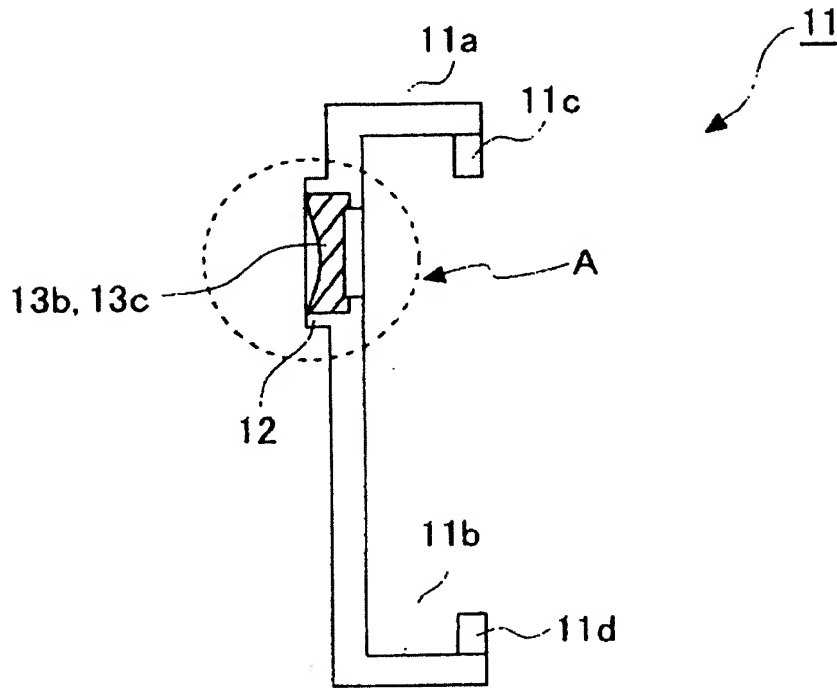
Fig. 20B



Shape of lens contained in option unit capable of adjusting width of slit light

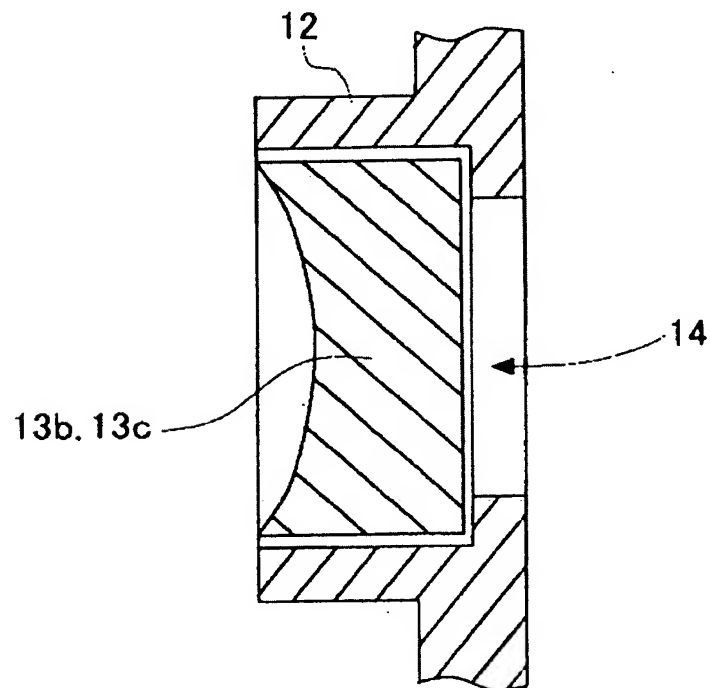
Descriptive views of option unit capable of adjusting width of slit light

Fig. 21A



Sectional view of option unit (lens being fixed)

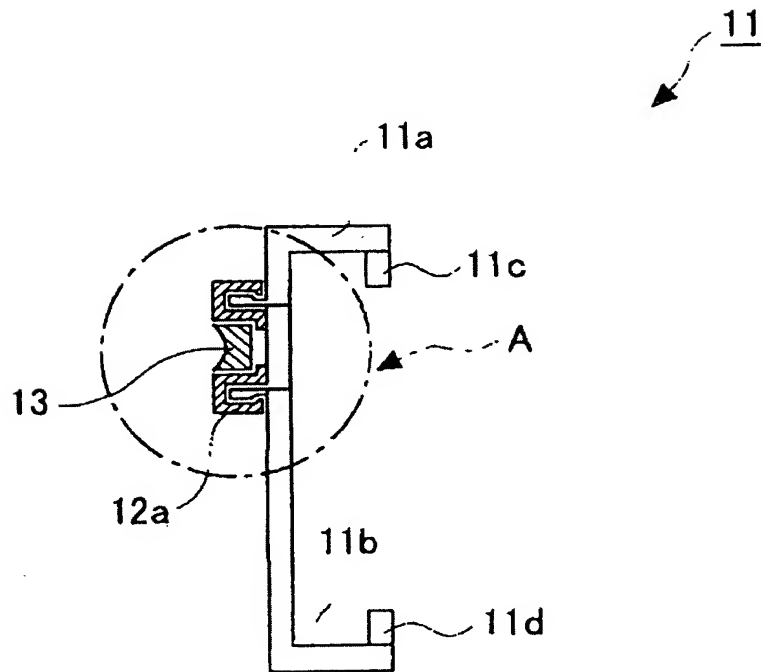
Fig. 21B



Enlarged view of A portion

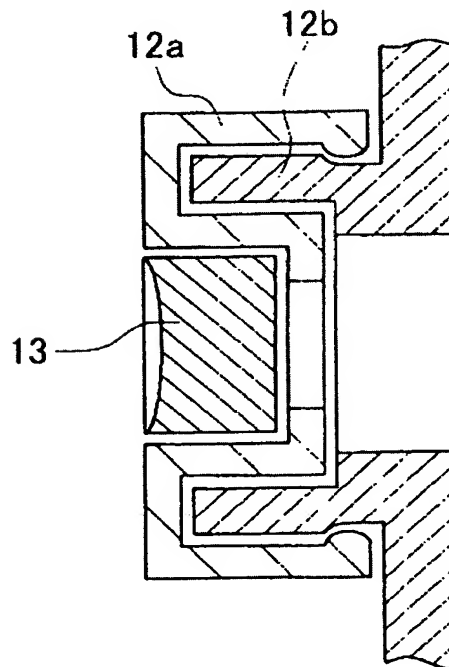
Descriptive views of lens holding structure of option unit

Fig. 22A



Sectional view of option unit (lens being rotatable)

Fig. 22B



Enlarged view of A portion

Descriptive views of lens holding structure of option unit

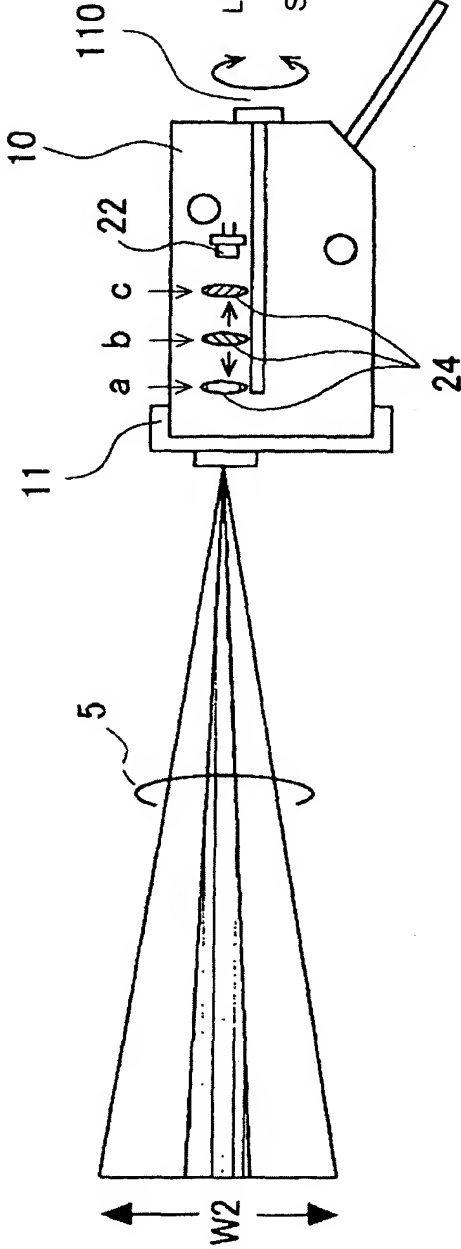


Fig. 23A

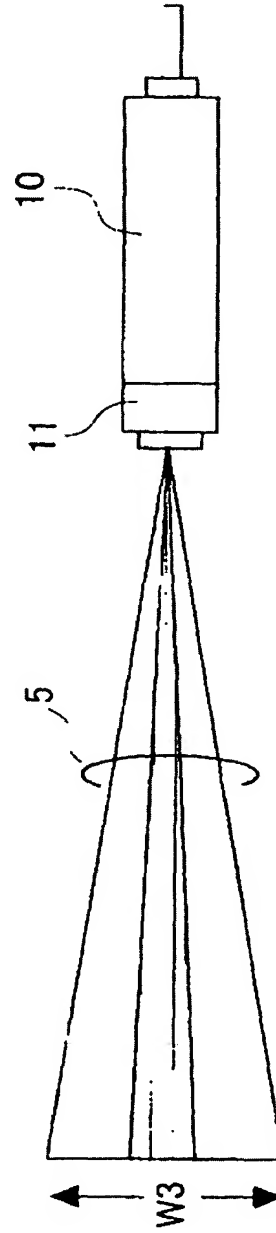
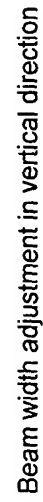
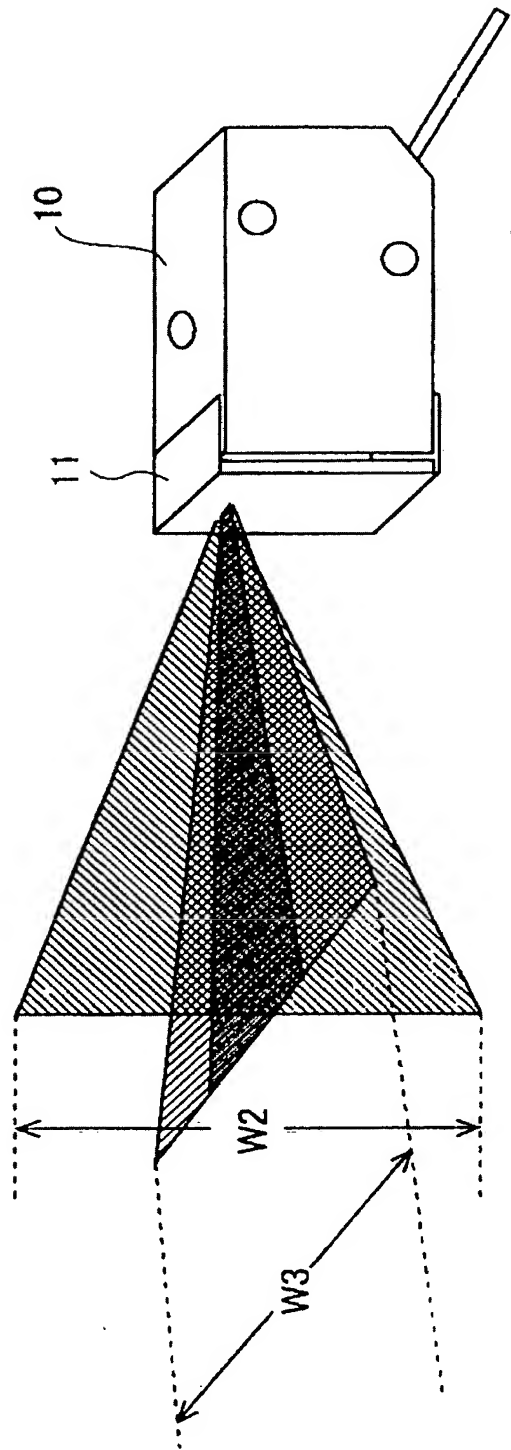


Fig. 23B

Beam width adjustment in horizontal direction

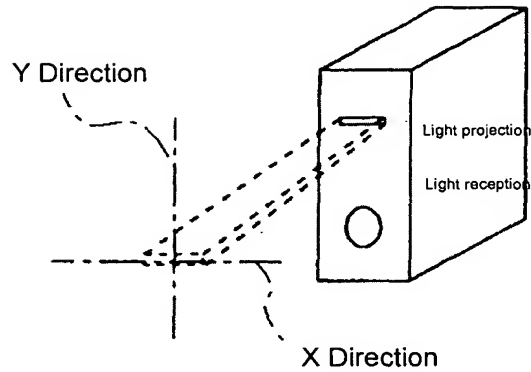
Descriptive views of sensor head of slit light illumination type

Fig. 24



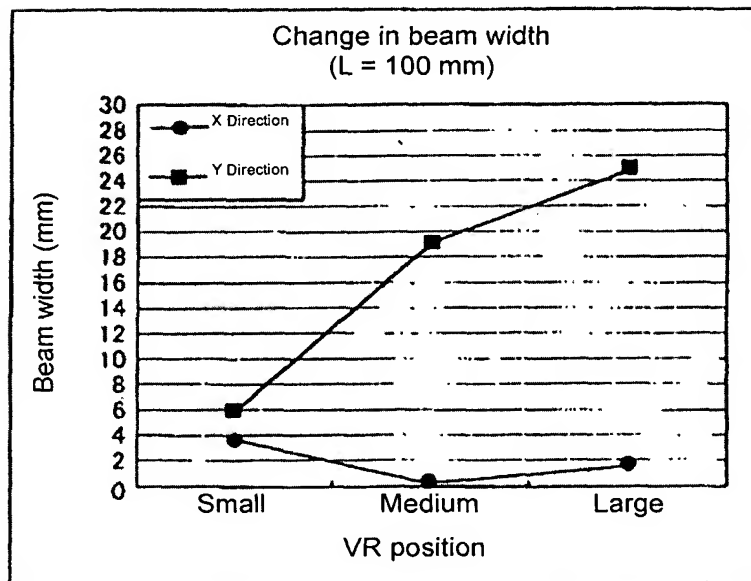
Schematic perspective view of sensor head of slit light illumination type

Fig. 25A



Definition of dimensions of slit light

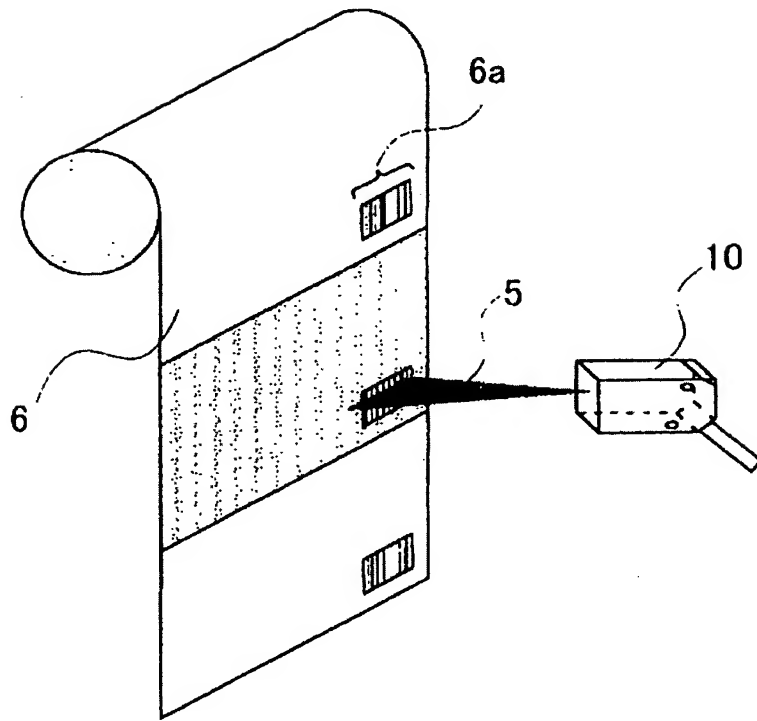
Fig. 25B



Change in dimension of slit light

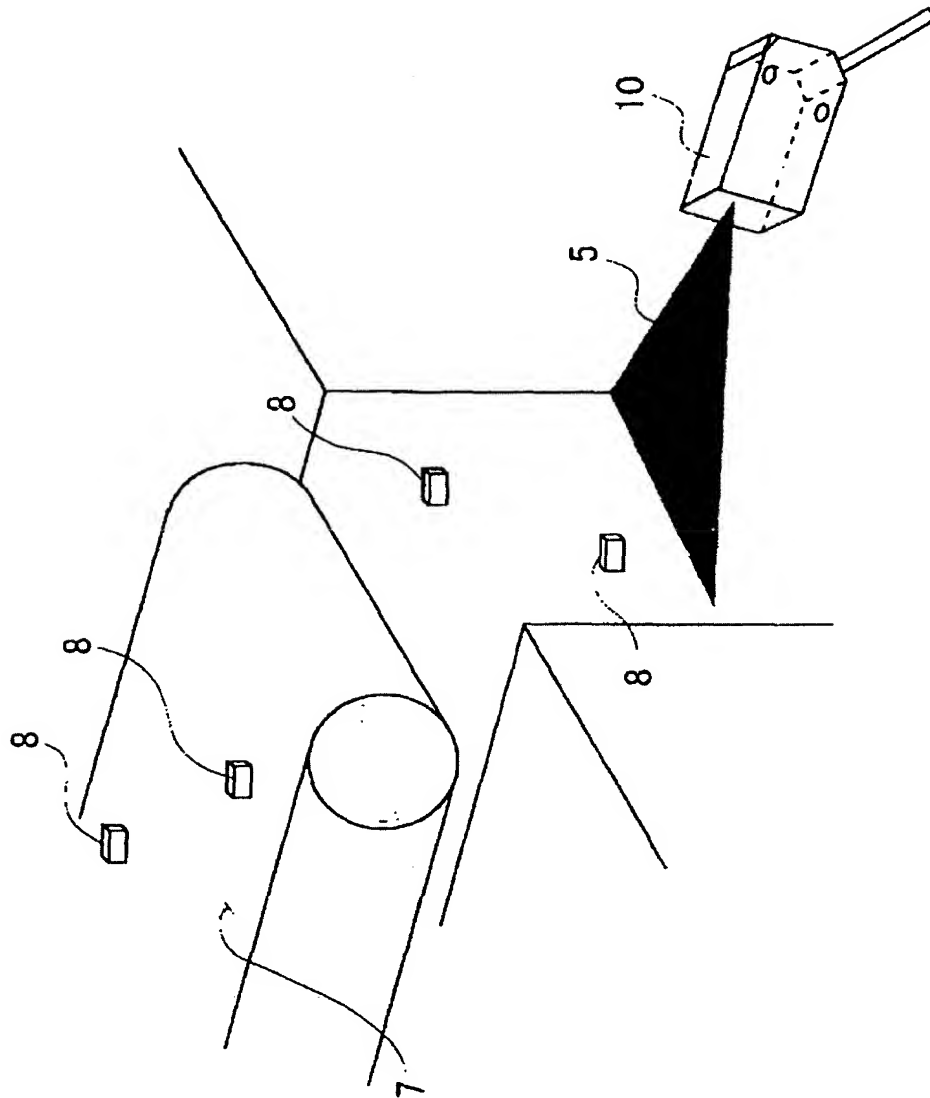
View and graph describing workings in width adjustment of slit light

Fig. 26



First example application of slit light illumination type sensor

Fig. 27



First example application of slit light illumination type sensor